

INCH-POUND

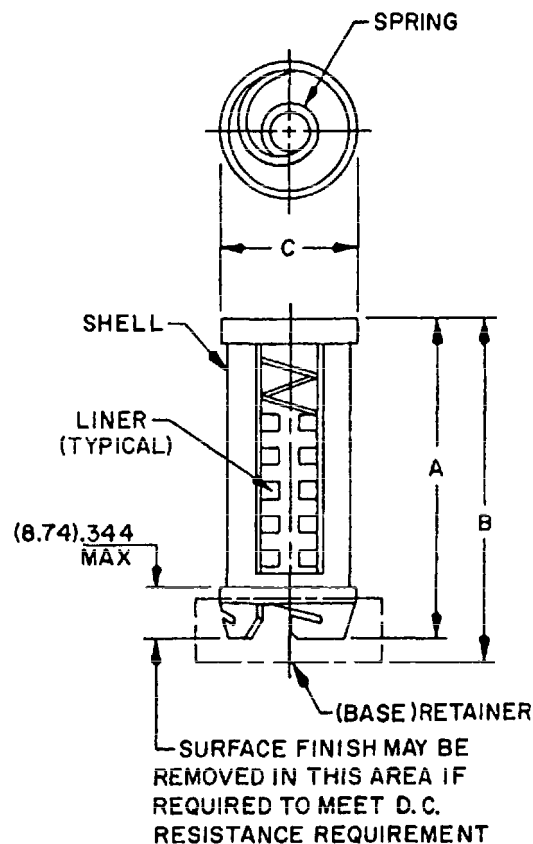
MIL-DTL-24251/5B
14 May 2003
SUPERSEDING
MIL-S-24251/5A
1 July 1968

DETAIL SPECIFICATION SHEET

SHIELD, ELECTRON TUBE, HEAT DISSIPATING, 7 AND 9 PIN, MINIATURE (OPEN SIDES)

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-24251.

This specification is approved for use by all Departments and Agencies of the Department of Defense.



NOTES:

1. All dimensions are in inches.
2. Millimeters are in parentheses.
3. Metric equivalents (to the nearest 0.01 mm) are given for general information only and are based upon 1 inch = 25.4 mm.
4. Unless otherwise specified, tolerance is 2 places $\pm .010$ (0.25 mm); 3 places $\pm .005$ (0.13 mm).
5. MIL-DTL-24251/5 (shield) was formerly MS24232 (USAF), 8 Feb 1962.

FIGURE 1. Dimensions and configuration.

MIL-PRF-24251/5B

TABLE 1. Characteristics.

Dash no.	Heat dissipation temp. reduction in °C (minimum)	A ±.06 (1.48)	B Max	C ±.015 (0.38)	Weight grams max	Tube envelope		Tube socket ref	Retainer (base) ref
						Style	Length nom.		
1	45	1.344 (34.14)	1.530 (38.86)	.917 (23.29)	9.0	T-5 1/2	1.125 (28.58)	MIL-DTL- 12883/10	M24251/4-1
2	95	1.844 (46.84)	2.030 (51.56)	.917 (23.29)	10.7	T-5 1/2	1.500 (38.10)		
3	70	2.344 (59.54)	2.530 (64.26)	.917 (23.29)	13.0	T-5 1/2	2.000 (50.80)		
4	50	1.344 (34.14)	1.530 (38.86)	1.036 (26.31)	10.2	T-6 1/2	1.125 (28.45)	MIL-DTL- 12883/11	M24251/4-2
5	86	1.844 (46.84)	2.030 (51.56)	1.036 (26.31)	12.0	T-6 1/2	1.562 (39.62)		
6	84	2.344 (59.54)	2.530 (64.26)	1.036 (26.31)	15.0	T-6 1/2	2.000 (50.80)		

REQUIREMENTS:

The shield, locking mechanism, liner, and other parts shall be designed to meet the requirements in MIL-DTL-24251, and to fit the tube envelope, tube socket, and retainer (base) specified in table I.

Dimensions and configuration: See figure 1 and table I.

Material:

Spring: Beryllium copper, ASTM-B194, ASTM-B196 and ASTM-B197.

Liner: Beryllium copper, ASTM-B194.

Shell: Aluminum alloy, SAE-AMS-QQ-A-250, SAE-AMS-QQ-A-250/2, and ASTM-B209.

Finish:

Spring: Black cadmium plate, SAE-AMS-QQ-P-416, class 1, type II, optional finish: Henderlube or equal.

Liner: Black cadmium plate, SAE-AMS-QQ-P-416, class 1, type II, optional finish: Henderlube or equal.

Shell: Black anodize - type II in accordance with MIL-A-8625, optional finish: Henderlube or equal.

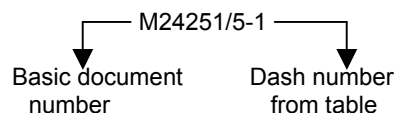
Construction: The spring shall be held in place by friction or by mechanical means if the maximum diameter is smaller than the inside diameter of the shield. The tension shall be such as will insure maximum compression of .125 inch (3.18 mm) over seated tube. The force required to compress spring to .375 inch (9.53 mm) within 1.5 to 2.5 pounds. Spirals shall not touch each other. The end of the coil spring shall not contact the electron tube envelope.

Installation force shall not exceed 20 pounds.

Engaging torque: 20 inch-pounds maximum.

The Part or Identifying Number (PIN) consists of the basic number of this specification sheet, preceded by the letter "M", and a dash number taken from table I.

Example:



Custodians:

Army - CR
Navy - EC
Air Force - 11
DLA - CC

Preparing activity:

DLA - CC

(Project 5960-3599-03)

Review activities:

Army - MI
Navy - CG, MC
Air Force - 19